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Docket No. 284602US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Pedro ALZARI, et al.

SERIAL NO: 10/564,975

GAU:

FILED: January 18, 2006

EXAMINER:

FOR: PKNB KINASE AND PSTP PHOSPHATASE AND METHODS OF IDENTIFYING INHIBITORY SUBSTANCES

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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SHEET 1 OF 1

Form PTO 1449 (Modified)  LIST OF REFERENCES CITED BY APPLICANT			ATTY DOCKET NO. 284602US0PCT	SERIAL NO. 10/564,975			
			APPLICANT Pedro ALZARI, et al.				
			FILING DATE January 18, 2006	GROUP			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2006/0019324	01/26/06	ALZARI et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	AB	02/48391	06/20/02	WO	YES	NO	NO
	AC	0 962 532	12/08/99	EP			NO
	AD	03/074728	09/12/03	WO			NO
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
AE	AV-GAY, Yossef et al., "Expression and Characterization of the Mycobacterium tuberculosis Serine/Threonine Protein Kinase PknB", Infection and Immunity, Vol. 67, No.11, Pages 5676-5682, 1999.						
AF	SINGH, Yogendra et al., "Identification of Drug Targets in M. Tuberculosis:Studies with Protein Kinases and Phosphatases", Medicinal Chemistry Research, Vol. 12, No. 4-5, Pages 241-242, 2004.						
AG	BOITEL, Brigitte et al., "PknB Kinase activity is regulated by phosphorylation in two Thr residues and dephosphorylation by PstP, the cognate phospho-Ser/Thr phosphatase, in Mycobacterium tuberculosis", Molecular Microbiology, Vol. 49, No. 6, Pages 1493-1508, 2003.						
AH	CHOPRA, Puneet et al., "Phosphoprotein phosphatase of Mycobacterium tuberculosis dephosphorylates serine-threonine kinases PknA and PknB", Biochemical and Biophysical Research Communications, Vol. 311, No. 1, Pages 112-120, 2003.						
AI	ALESSI, Dario R. et al., "Identification of the sites in MAP kinase kinase-1 phosphorylated by p74 <sup>taf1</sup> ", The EMBO Journal, Vol.13, No. 7, Pages 1610-1619, 1994.						
AJ	ORTIZ-LOMBARDIA, Miguel et al., "Crystal Structure of the Catalytic Domain of the PknB Serine/Threonine Kinase from Mycobacterium tuberculosis", The Journal of Biological Chemistry, Vol. 278, No. 15, Pages 13094-13100, 2003.						
AK	CUNNINGHAM, Adam F. et al., "Mycobacterial Stationary Phase Induced by Low Oxygen Tension: Cell Wall Thickening and Localization of the 16-Kilodalton $\alpha$ -Crystallin Homology", Journal of Bacteriology, Vol. 180, No. 4, Pages 801-808, 1998.						
AL	CHABA, Rachna et al., "Evidence that a eukaryotic-type serine/threonine protein kinase from Mycobacterium tuberculosis regulates morphological changes associated with cell division", Eur. J. Biochem., Vol. 269, Pages 1078-1085, 2002.						
AM	GAIDENKO, Tatiana A. et al., "The PrpC Serine-Threonine Phosphatase and PrkC Kinase Have Opposing Physiological Roles in Stationary-Phase Bacillus subtilis Cells", Journal of Bacteriology, Vol. 184, No. 22, Pages 6109-6114, 2002.						
AN	LEONARD, Christopher J. et al., "Novel Families of Putative Protein Kinases in Bacteria and Archaea: Evolution of the "Eukaryotic" Protein Kinase Superfamily", Genome Research, Vol. 8, Pages 1038-1047, 1998.						
AO	STEINBERG, Robert A. et al., "Autoactivation of Catalytic (C $\alpha$ ) Subunit of Cyclic AMP-Dependent Protein Kinase by Phosphorylation of Threonine 197", Molecular and Cellular Biology, Vol. 13, No. 4, Pages 2332-2341, 1993						
AP	MOTLEY, S. Timothy et al. "Functional Characterization of a Serine/Threonine Protein Kinase of Pseudomonas aeruginosa", Infection and Immunity, Vol. 67, No. 10, Pages 5386-5394, 1999.						
AQ	ROBBINS, David J. et al., "Regulation and Properties of Extracellular Signal-regulated Protein Kinases 1 and 2 in Vitro", The Journal of Biological Chemistry, Vol. 268, No. 7, Pages 5097-5106, 1993.						
AR	KOUL, Anil et al., "Cloning and Characterization of Secretory Tyrosine Phosphatases of Mycobacterium tuberculosis", Journal of Bacteriology, Vol. 182, No. 19, Pages 5425-5432, 2000.						
AS	KOUL, Anil et al., "Serine/threonine protein kinases PknF and PknG of Mycobacterium tuberculosis: characterization and localization", Microbiology, Vol. 147, Pages 2307-2314, 2001.						
AT	DEMAIO, James et al., "A stationary-phase stress-response sigma factor from Mycobacterium tuberculosis", Proc. Natl. Acad. Sci., Vol. 93, Pages 2790-2794, 1996.						
AU	HANKS, Steven K. et al., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification", The FASEB Journal, Vol. 9, Pages 576-596, 1995.						
AV	STURGILL-KOSZYCKI, Sheila et al., "Mycobacterium-containing phagosomes are accessible to early endosomes and reflect a transitional state in normal phagosome biogenesis", The EMBO Journal, Vol. 15, No. 24, Pages 6960-6968, 1996.				<input type="checkbox"/> Additional References sheet(s) attached		
Examiner					Date Considered		
<p>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

U.S. PCT Application Serial No: 10/564,975

Filed: January 18, 2006

Pedro ALZARI, et al.

Docket No. 284602 US

#### STATEMENT OF RELEVANCY

- 1) References AB - AD & AE - AH have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References [REDACTED] have been cited in the corresponding [REDACTED] Search Report. A copy of these references is being submitted herewith.
- 3) References AI - AV are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References [REDACTED] are additional prior art known to Applicant. A copy of these references is being submitted herewith.

	Docket No.: 284602US0PCT	Serial No.: 10/564,975			
LIST OF RELATED CASES CITED BY APPLICANT UNDER 37 CFR 1.56	Inventor: Pedro ALZARI, et al.				
	Filing Date: January 18, 2006	Group:			
<b><u>LIST OF RELATED CASES</u></b>					
Examiner <u>Initial</u>	Docket No.	Serial or <u>Patent Number</u>	Filing or <u>Issue Date</u>	Patent App. <u>Publication No.</u>	Inventor or <u>Applicant</u>
	284602US0PCT*	10/564,975	01/18/06		ALZARI, et al.
	276600US0CONT	11/195,739	08/03/05	US2006/0019324 A1	ALZARI, et al.
	252853US0	10/892,170	07/16/04		ALZARI, et al.
Examiner	Date Considered				

\*Present Application; listed for information  
NFO/kch